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L1: Entry 1 of 2

File: JPAB

Sep 21, 1979

PUB-NO: JP354122387A

DOCUMENT-IDENTIFIER: JP 54122387 A

TITLE: PREPARATION OF POLYOLEFIN

PUBN-DATE: September 21, 1979

## INVENTOR-INFORMATION:

NAME

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NIPPON OIL CO LTD

APPL-NO: JP53029309

APPL-DATE: March 16, 1978

INT-CL (IPC): C08F 10/00; C08F 4/62

## ABSTRACT:

PURPOSE: To increase the yield of a polyolefin by using a catalyst system comprising an organometallic compound and a solid component prepared by pulverizing the reaction product of magnesium oxide with aluminum trichloride, together with an organic carboxylic acid, etc. and a titanium compound, etc.

CONSTITUTION: An olefin is (co)polymerized in the presence of a catalyst system comprising (A) a solid component prepared by pulverizing (a) a product of the thermal reaction of magnesium oxide with aluminum trichloride, together with (b) an organic carboxylic acid RCOOH, an organic carboxylic acid metal salt RCOOMe, an ester RCOOR', a ketone ROR', an alcohol ROH, an ether R-O-R' and/or a silicone, and (c) a titanium compound and/or a vanadium compound, and (B) an organometallic compound, e.g. organoaluminum compounds, etc. (R, R' are hydrocarbon; R'', R''' are H, alkyl, etc.; Me is I~III group metal).

EFFECT: Elimination of the catalyst residue is unnecessary, and the bulk density and the flow characteristics of the polymer are improved.

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L1: Entry 2 of 2

File: DWPI

Sep 21, 1979

DERWENT-ACC-NO: 1979-79903B

DERWENT-WEEK: 197944

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TITLE: Prodn. of polyolefin with wide mol. wt. distribution - using solid catalyst component prepd. from magnesia-aluminium chloride reaction prod., organic cpd. and titanium or vanadium cpd.

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

NIPPON OIL KK

NIOC

PRIORITY-DATA: 1978JP-0029309 (March 16, 1978)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 54122387 A</u>	September 21, 1979		000	
<input type="checkbox"/> <u>JP 83030886 B</u>	July 2, 1983		000	

INT-CL (IPC): C08F 4/62; C08F 10/00

ABSTRACTED-PUB-NO: JP 54122387A

## BASIC-ABSTRACT:

When polymerising an olefin using a catalyst system of a solid component and an organic metal cpd., the solid component is that obtd. by grinding together (1) a reaction prod. of MgO and AlCl<sub>3</sub>, (2)  $\geq 1$  degree C of (i) an organic acid RCOOH, (ii) a metal salt of an organic acid RCOOMe, (iii) an ester RCOOR', (iv) a ketone RCOR', (v) an alcohol ROH, (vi) an ether R-O-R' and (vii) a silicone-(SiR''R''' O)-n (where R and R' are each hydrocarbon residue, R'' and R''' are each H, alkyl, aryl, alkoxy or hydroxy and Me is a Gp. I-III metal) and (3) a titanium cpd. and/or a vanadium

The polyolefin obtd. has mol. wt. distribution, i.e. higher flow parameter. The yield per solid component is remarkably increased, thus eliminating the need of catalyst recovery.

TITLE-TERMS: PRODUCE POLYOLEFIN WIDE MOLECULAR WEIGHT DISTRIBUTE SOLID CATALYST COMPONENT PREPARATION MAGNESIA ALUMINIUM CHLORIDE REACT PRODUCT ORGANIC COMPOUND TITANIUM VANADIUM COMPOUND

## ADDL-INDEXING-TERMS:

SILICONE POLYSILOXANE

h e b b g e e e f c e

e ge

DERWENT-CLASS: A17

CPI-CODES: A02-A06; A02-A07A; A04-G01A; A06-A00E2; A12-W11B;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0037 0040 0043 0046 0049 0052 0055 0058 0061 0064 0067 0070 0073 0082  
0133 0136 0139 0142 0145 0172 0175 0178 0181 0184 0187 0190 0193 0222 0227 0232  
0233 1306 2044 2048 2050 2051 2062 2066 2067 2560 2586

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15& 17& 17- 18& 18- 19& 19- 20& 20- 229 260 278 279 280 283 311 38- 437 512 575 583  
589 590 682 688 689 691 693 724